

Incident Name: 2018 Superior Refinery Fire

Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]

Approved By

Incident Commander:

Schade, Kollin



Incident Action Plan

Amended 204 Work Assignments

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Incident Name: 2018 Superior Refinery Fire			Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Stabilization Group Supervisor	Thom, Tim	Husky Energy Inc.	715-817-8016	
De-Inventory Task Force	Laszewski, Aaron	Husky Energy Inc.	920-883-1992	
De-Inventory Task Force	Ivanca, Erin	Husky Energy Inc.	651-592-6339	
De-Inventory Task Force	Campbell, Adam	Husky Energy Inc.	218-491-4920	
De-Inventory Task Force Leader	Witherill, Troy	Husky Energy Inc.	218-522-0114	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
De-Inventory Task Force	Manpower: Responder	Day Shift Responders	2	
De-Inventory Task Force	Manpower: Responder	Engineer	7	
De-Inventory Task Force	Manpower: Responder	Project Manager	1	
De-Inventory Task Force	Manpower: Responder	Project Control	1	
De-Inventory Task Force	Equipment: Safety	VCU	2	
De-Inventory Task Force	Manpower: Responder	Contractors	15	
Assignments				
<p>De-inventory the following units as per approved plan:</p> <ul style="list-style-type: none"> - High pressure receiver and condensers - FCC Gas con stripper & debutanizer - C3/C4 merox and amine contactor - ISOM - North Crude Unit - Include review of potential future operability. - #2 Hydrobon <p>Continue to develop the hydrocarbon de-inventory plans for priority assets:</p> <ul style="list-style-type: none"> - FCC Gas con stripper & debutanizer - #2 Hydrobon - #2 DUF - C3/C4 merox and amine contactor - Main column - South Crude Unit <p>SRS/Evergreen to assist with plan development.</p> <p>De-Inventory fuel products upon pipeline availability.</p> <p>Develop plan to tie in natural gas to asphalt tank farm.</p> <p>**No operations on additional units until final approvals have been completed**</p> <p>Hydrocarbon de-inventory plan for each unit will be approved by the following:</p> <ul style="list-style-type: none"> - Incident Commander - Operations Section Chief - Planning Section Chief - Environmental Unit Leader - Safety Officer - Lead Investigator 				
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ICS 204 - Assignment List		Task Force: De-Inventory Task Force	
Incident Name: 2018 Superior Refinery Fire		Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]	
Communications			
Name / Function	Contact Details		
ERT Channel	8		
Channel 1 Talk Around	11		
Primary	1		
Secondary	2		
Radio	3 to 7		
Special Environmental Considerations			
<p>Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p> <p>Prior to commencing de-inventory activities, notify GHD so task specific monitoring can commence to verify site and public safety. Once de-inventory events commence, notification of any venting/release of vapor/liquid hydrocarbon to the environment shall be made to the GHD air monitoring group immediately for consideration in air monitoring.</p> <p>Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p>			
Special Site-Specific Safety Considerations			
<p>Refer to individual De-inventory safety plans for additional requirements.</p> <p>If working in Hot or Warm Zone, must follow entry procedures.</p> <p>Minimum PPE for work in refinery is full FR clothing, Hard Hat, Safety Glasses with side shields and safety boots. Additional PPE may be required depending on work to be performed or areas to be entered. Refer to Safe Work Permit and Safe Work Permit writers for further guidance.</p> <p>A Safe Work Permit is required for all work. Safe Work Permits can be obtained from operators in the ERT Building.</p> <p>Ensure that air monitoring, including 4-Gas and product specific (Benzene, Hydrogen Sulfide, etc.) is done during the de-inventory process.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Be cognizant of the hazards of the hazards of Nitrogen, unit contents including Benzene, H2S, petroleum products, etc.</p> <p>Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.</p> <p>For work in asbestos (asbestos danger tape) areas of the hot zone or where damage has occurred to insulation or equipment outside of hot zone, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist from GHD. If concerns are found, GHD will work with asbestos removers to render the area safe for work if possible. Any concerns found as part of this assessment must be addressed prior to any work being done.</p> <p>The Plant Emergency Alarm system will signal need to evacuate from the site. The plant radio system will be used to signal an evacuation if the primary should fail.</p> <p>Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an announcement on the plant radio system if there are special precautions or if there is a need to take shelter.</p>			
Additional Information			
<p>If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shack at 715-398-8220 or 221</p>			
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ICS 204 - Assignment List			Task Force: Flare Inerting Task Force		
Incident Name: 2018 Superior Refinery Fire			Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]		
Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161		
Stabilization Group Supervisor	Thom, Tim	Husky Energy Inc.	715-817-8016		
Flare Task Force Leader	Ivanca, Erin	Husky Energy Inc.	651-592-6339		
Flare Task Force Leader	Raboin, Pete	Husky Energy Inc.	218-393-7674		
Resources Required					
Area Of Operation	Resource Kind	Description	Quantity	Size	
Assignments					
Develop a plan to isolate flare from fire damaged areas, prove integrity and re-instate.					
Communications					
Name / Function		Contact Details			
ERT Channel		8			
Channel 1 Talk Around		11			
Primary		1			
Secondary		2			
Radio		3 to 7			
Special Environmental Considerations					
<p>Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p> <p>Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately. Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p> <p>Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.</p>					
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ICS 204 - Assignment List		Task Force: Flare Inerting Task Force	
Incident Name: 2018 Superior Refinery Fire		Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]	
Special Site-Specific Safety Considerations			
<p>If in Hot Zone, must follow Hot Zone Procedures including Bunker Gear, ERT escort, 4-Gas Monitor and sign in at ERT Response Center.</p> <p>All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.</p> <p>A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Be cognizant of the hazards of the products in the Flare, as well as nitrogen, fire, pyrophorics and similar hazards.</p> <p>Emergency Alarm system will signal need to evacuate from the site.</p> <p>Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.</p> <p>For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.</p> <p>Be aware of the potential for severe weather. The Shift Foreman will make an announcement if there are special precautions or if there is a need to take shelter.</p>			
Additional Information			
<p>If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shack at 715-398-8220 or 221</p>			
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ICS 204 - Assignment List			Task Force: Energy Restoration Task Force	
Incident Name: 2018 Superior Refinery Fire			Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Mechanical Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538	
Energy Restoration Task Force Leader	Carlson, Brad	Husky Energy Inc.	218-390-5182	
Energy Restoration Task Force Leader	Massie, Nik	Husky Energy Inc.	715-817-1209	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Energy Restoration Task Force	Manpower: Responder	Electricians	10	
Energy Restoration Task Force	Supervisor	Supervisor	2	
Assignments				
<p>1) Submit plan for energizing the following areas:</p> <ul style="list-style-type: none"> - Plan to provide permanent power to VV building. - T building - Electrical plan to De-Inventory crude. - Rail yard lights south of Stinson. - Permanent FCC Control Power - Y Building - B, D & F buildings for Crude Area <p>2). Energize the following areas:</p> <ul style="list-style-type: none"> - VV building. - T building - De-Inventory crude unit. <p>**Prioritization changes to plans need to be approved by Operations Section Chief**</p> <p>Plans to be approved through normal refinery MOC process, Operations Section Chief and Incident Investigation Team (Shane Strang)</p>				
Communications				
Name / Function		Contact Details		
ERT Channel		8		
Channel 1 Talk Around		11		
Primary		1		
Secondary		2		
Radio		3 to 7		
Special Environmental Considerations				
<p>Considerations of potential hydrocarbon release should be made prior to energizing hydrocarbon containing equipment or their control system in order to minimize the release of hydrocarbons.</p> <p>Prior to energizing any CEM buildings all building analyzers and sampling equipment shall be turned off.</p> <p>Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.</p> <p>Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.</p>				
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ICS 204 - Assignment List		Task Force: Energy Restoration Task Force	
Incident Name: 2018 Superior Refinery Fire		Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]	
Special Site-Specific Safety Considerations			
<p>If working in Hot or Warm Zone, must follow entry procedures.</p> <p>Minimum PPE for work in refinery is full FR clothing, Hard Hat, Safety Glasses with side shields and safety boots. Additional PPE may be required depending on work to be performed or areas to be entered. Refer to Safe Work Permit and Safe Work Permit writers for further guidance.</p> <p>A Safe Work Permit is required for all work. Safe Work Permits can be obtained from operators in the ERT Building.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Follow Refinery Electrical Safety and Lockout Tagout programs.</p> <p>Be aware of your surroundings. There may be large equipment and overhead work in your area.</p> <p>Be cognizant of downed power lines, overhead hazards and potential for unintentional energization of electrical equipment.</p> <p>Wear PPE appropriate to the potential electrical energy.</p> <p>Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.</p> <p>For work in asbestos (asbestos danger tape) areas of the hot zone or where damage has occurred to insulation or equipment outside of hot zone, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist from GHD. If concerns are found, GHD will work with asbestos removers to render the area safe for work if possible. Any concerns found as part of this assessment must be addressed prior to any work being done.</p> <p>The Plant Emergency Alarm system will signal need to evacuate from the site. The plant radio system will be used to signal an evacuation if the primary should fail.</p> <p>Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an announcement on the plant radio system if there are special precautions or if there is a need to take shelter.</p>			
Additional Information			
<p>If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shack at 715-398-8220 or 221</p>			
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ICS 204 - Assignment List			Task Force: Control System Task Force	
Incident Name: 2018 Superior Refinery Fire			Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]	
Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Mechanical Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538	
Control System Task Force Leader	Johnson, Joe	Husky Energy Inc.	651-307-7833	
Resources Required				
Area Of Operation	Resource Kind	Description	Quantity	Size
Control System Task Force	Manpower: Responder	Electricians	1	
Control System Task Force	Manpower: Responder	Manpower: Responder	5	
Assignments				
<p>Install fiber cable to connect new crude control room to "T" building – to support DCS connection when it is available.</p> <p>Restore BOHO DeltaV DCS control, with approval from Investigation Task Force.</p> <p>Restore H2S monitors in the SRU.</p> <p>Verify instrumentation wiring status and develop repair plan on the following areas:</p> <ul style="list-style-type: none"> - Flare - Cooling water - Fuel gas - Steam - Instrument air - SRU - Crude unit - Platformer - TGTU - #2 Hydrobon 				
Special Environmental Considerations				
<p>Ensure that HF Air Monitoring is intergrated with GHD program.</p>				
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ICS 204 - Assignment List		Task Force: Control System Task Force	
Incident Name: 2018 Superior Refinery Fire		Period: Period 12 [05/30/2018 06:00 - 06/10/2018 06:00]	
Special Site-Specific Safety Considerations			
<p>If working in Hot or Warm Zone, must follow entry procedures.</p> <p>Minimum PPE for work in refinery is full FR clothing, Hard Hat, Safety Glasses with side shields and safety boots. Additional PPE may be required depending on work to be performed or areas to be entered. Refer to Safe Work Permit and Safe Work Permit writers for further guidance.</p> <p>A Safe Work Permit is required for all work. Safe Work Permits can be obtained from operators in the ERT Building.</p> <p>Hazard assessment must be done to plan safe work.</p> <p>Be cognizant of the hazards of the products being handled including hydrofluoric acid and other hazards of the Alkylation Unit.</p> <p>Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.</p> <p>For work in asbestos (asbestos danger tape) areas of the hot zone or where damage has occurred to insulation or equipment outside of hot zone, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist from GHD. If concerns are found, GHD will work with asbestos removers to render the area safe for work if possible. Any concerns found as part of this assessment must be addressed prior to any work being done.</p> <p>The Plant Emergency Alarm system will signal need to evacuate from the site. The plant radio system will be used to signal an evacuation if the primary should fail.</p> <p>Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an announcement on the plant radio system if there are special precautions or if there is a need to take shelter.</p>			
Additional Information			
<p>If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shack at 715-398-8220 or 221</p>			
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